## §84.110

## Subpart I—Gas Masks

## §84.110 Gas masks; description.

- (a) Gas masks including all completely assembled air purifying masks designed for use as respiratory protection during entry into atmospheres not immediately dangerous to life or health or escape only from hazardous atmospheres containing adequate oxygen to support life are described as follows:
- (1) Front-mounted or back-mounted gas mask. A gas mask which consists of a full facepiece, a breathing tube, a canister at the front or back, a canister harness, and associated connections.
- (2) Chin-style gas mask. A gas mask which consists of a full facepiece, a canister which is usually attached to the facepiece, and associated connections.
- (3) Escape gas mask. A gas mask designed for use during escape only from hazardous atmospheres which consists of a facepiece or mouthpiece, a canister, and associated connections.
- (b) Gas masks shall be further described according to the types of gases or vapors against which they are designed to provide respiratory protection, as follows:

Type of front-mounted or back-mounted gas mask:

Acid gas 123

Ammonia

Carbon monoxide

Organic Vapor 123

Other gas(es) and vapor(s) 123

Combination of two or more of the above gases and vapors.  $^{1\,2\,3}$ 

Combination of acid gas, ammonia, carbon monoxide, and organic vapors.  $^{1\,2\,3}$ 

Type of chin-style gas mask:

Acid gas 123

Ammonia

Carbon monoxide

Organic vapor 1 2 3

Other gas(es) and vapor 123

Combination of two or more of the above gases and vapors.  $^{1\,2\,3}$ 

Type of escape gas mask:

Acid gas 1234

Ammonia 4

Carbon monoxide

Organic vapor 1234

Other gas(s) and vapor(s) 1234

Combination of two or more of the above gases and vapors. 1 2 3 4

<sup>1</sup>Approval may be for acid gases or organic vapors as a class or for specific acid gases or organic vapors.

Not for use against gases or vapors with poor warning properties (except where MSHA or Occupational Safety and Health Administration standards permit such use for a specific gas or vapor), or those which generate high heats or reaction with sorbent materials in the canister.

<sup>3</sup> Use of the gas mask may be limited by factors such as lower explosive limit, toxicological effects, and facepiece fit. Limitations on gas mask service life and sorbent capacity limitations shall be specified by the applicant in instructions for selection, use and maintenance of the gas mask.

<sup>4</sup> Eye protection may be required in certain concentrations of gases and vapors.

(c) Gas masks for respiratory protection against gases and vapors other than those specified in paragraph (b) of this section, may be approved upon submittal of an application in writing for approval to the Certification and Quality Assurance Branch listing the gas or vapor and suggested maximum use concentration for the specific type of gas mask. The Institute will consider the application and accept or reject it on the basis of effect on the wearer's health and safety and any field experience in use of gas masks for such exposures. If the application is accepted, the Institute will test such masks in accordance with the requirements of this subpart.

## §84.111 Gas masks; required components.

- (a) Each gas mask described in §84.110 shall, where its design requires, contain the following component parts:
- (1) Facepiece or mouthpiece and noseclip;
  - (2) Canister or cartridge;
  - (3) Canister harness;
  - (4) External check valve; and
  - (5) Breathing tube.
- (b) The components of each gas mask shall meet the minimum construction requirements set forth in subpart G of this part.